

WEDNESDAY 30 SEPTEMBER

OCCURRENCE IN ENVIRONMENTAL AND BIOLOGICAL SAMPLES

Chairman: T. Fazio

0.49 μg/m³

(09.00) 0-17 BOGOWSKI, P., Kann, J., Rooma, M., Tauts, O. & Uiba, J.
Research on environmental *N*-nitroso compounds in the USSR

(09.20) 0-18 KAWABATA, T., Matsui, M., Ishibashi, T., Hamano, M. & Ito, M.
Formation of *N*-nitroso compounds during cooking of Japanese food

(09.40) 0-19 TOMITA, I., Nakamura, Y. & Tanaka, H.
Mutagenicity of various Japanese foodstuffs treated with nitrite

(10.00) 0-20 van BROEKHOVEN, L.W. & Davies, J.A.R.
N-Nitrosamines in grass silage

10.20 COFFEE BREAK

Chairman: T. Kawabata

(10.40) 0-21 SPIEGELHALDER, B. & Preussmann, R.
Nitrosamines and rubber

(11.00) 0-22 FAJEN, John, Rounbehler, D.P. & Fine, D.H.
Summary report on *N*-nitrosamines in the factory environment

(11.20) 0-23 WALTERS, C.E., Smith, P.L.R., Reed, P.I., Haines, K.
& House, F.R.
N-Nitroso compounds in gastric juice and their relationship to gastroduodenal disease

(11.40) 0-24 ELEN, G., Schuller, P.L., Bruijns, E., Froeling, P.G.A.M.
& Baadenhuijsen, H.
Volatile *N*-nitrosamines, nitrate and nitrite in urine and saliva of healthy volunteers after administration of large amounts of nitrate

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12.00

0-25 FINE, D.H., Challis, B.C., Hartman, P. & Van Ryzin, J.

Comparison of human exposure and risk assessment of nitrosamines from endogenous and exogenous sources.

12.20

LUNCH

POSTER DISPLAY AND PLENARY DISCUSSION

Chairman: W. Lijinsky

Rapporteurs: P. Groenen, M. Börzsönyi

14.00 -15.30 Poster presentation

15.30 COFFEE BREAK

15.50 -17.20 Discussion on posters

Posters related to Analysis

P-18

ROUNDELLER, D.P. & Fine, D.H.

Specific detection of amines and other nitrogen containing compounds with a modified TGA analyzer

Posters related to Safety

P-19

WALTERS, C.L.

Destruction of *N*-nitrosamides in laboratory waste

P-20

CASTEGNARO, Marcel, Michelon, J. & Walker, E.A.

Some detoxification methods for nitrosamine contaminated wastes

P-21

SANSONE, E.B., Lunn, G., Jonas, L.A. & Keefer, L.K.

Approaches to hazard control in the carcinogenesis laboratory: *N*-nitroso compounds

P-22

JØRGENSEN, K.A. & Kawesson, S.O.

Destruction of *N*-nitrosamides with a P,S-reagent and attempts to nitrosate thioamides

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Posters related to Biological Effects

P-23 PÖBBELTOLD, M.B., Deboyser, D., Goethals, F. & Krack, G.
Biochemical mechanisms of toxicity of nitrosopyrrolidine
on isolated hepatocytes

P-24 EISENBRAND, G., Heydt, G. & Preussmann, R.
Metabolism of isomeric *N*-nitroso-*N*-methylaminopyridines
by rat liver microsomes

P-25 JANOWSKI, C., Gottfried, J., Pool, B.L., Eisenbrand, G.
& Preussmann, R.
In vitro metabolism of fluorinated dialkylnitrosamines

P-26 SAKAI, Ayako & Tanimura, A.
Mutagenicity of *N*-nitroso compounds formed by the
reaction of sulpyrine with nitrite; effect of cysteine
and its derivatives

P-27 INUI, Naomichi, Nishi, Y. & Tanimura, A.
Induction of 8-azaguanine-resistant mutation and neoplastic
transformation of hamster embryonic cells by coadministration
of sodium nitrite and aminopyrine

P-28 RAO, T.K., Epler, J.L. & Eijinsky, W.
Structure activity studies with *N*-nitrosamines using
Salmonella typhimurium and *Escherichia coli*

(P-29) PREUSSMANN, R., Häbs, M., Schmähl, D. & Eisenbrand, G.
Dose-response study on the carcinogenicity of *N*-nitroso-
diethanolamine (NDETA) in male Sprague-Dawley rats

P-30 KONISHI, Yoichi, Denda, A., Takahashi, S., Maruyama, H.,
Yokose, Y., Mori, Y., Matsui, M. & Toyoshi, K.
Organotropic effect of N-bis(2-hydroxypropyl)nitrosamine:
production of lung adenocarcinoma by a single intra-
peritoneal injection in rats

(P-31) HOFFMANN, Dietrich, Adams, J.D., Brunnemann, K.D., Rivenson,
A. & Hecht, S.S.
Tobacco specific nitrosamines: occurrence and bioassays

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P-32 OIGAKI, Hiroko, Kawachi, T., Matsukura, N., Morino, K.
& Sugimura, T.
Genetic control of sensitivity of gastrocarcinogenesis
in rats by *N*-methyl-*N'*-nitro-*N*-nitrosoguanidine

P-33 FONG, L.Y.Y., Lee, J.S.K., Chan, W.C. & Newberne, P.M.
Zinc deficiency and the induction of esophageal tumors
in rats by methylbenzylamine and sodium nitrite

P-34 McCOY, G. David, Katayama, S., Young, R., Wyatt, M. & Hecht, S.S.
Influence of chronic ethanol consumption on the metabolism
and carcinogenicity of tobacco related nitrosamines

P-35 BÖRZSÖNYI, Matias, Tórok, G., Pinter, A., Surjan, A.,
Csik, M. & Bar, V.
Inhibition of the carcinogenic effect of nitrosomorpholine
formed *in vivo* by an antioxidant

EVENING

BANQUET

T S OSDENE

FEB 28 1981

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THURSDAY 1 OCTOBER

BIOLOGICAL EFFECTS, CARCINOGENIC

Chairman: R. Preussmann

09.00 0-26 TANAKA, Akira & Watanabe, M.
Metabolism of 1-propyl-1-nitrosourea (PNU) in rats

09.20 0-27 SINGER, George M., Lijinsky, W., Buettner, L. & McClusky, G.A.
Metabolism of nitrosomethyl-*n*-alkylamines in Fischer rats

09.40 0-28 HEGDILL, S.S., Young, R., Rivenson, A. & Hoffmann, D.
On the metabolic activation of *N*-nitrosomorpholine and
*N*¹-nitrosornicotine: effects of deuterium substitution X

10.00 0-29 TIO, Nobuyuki, Fukushima, S., Tsuda, H., Shirai, T. & Arai, M.
Dose-response changes in rats treated with *N*-nitroso compounds

10.20 0-30 MAEKAWA, A., Takahashi, M., Kurokawa, Y., Kokubo, T., Ogiu, T.,
Mochizuki, M., Anjo, T., Okada, M. & the late Odashima, S.
Carcinogenicity of α -oxidized nitrosamines (α -acetoxy,
 α -hydroperoxy, and α -oxo nitrosamines) in P-344 rats

10.40 COFFEE BREAK

Chairman: P. Bogovski

11.00 0-31 LIJINSKY, William X
Chemical structural effects in carcinogenesis by nitrosamines

11.20 0-32 GRICIUTE, Laima, Castegnaro, M. & Béréziat, J.C.
Influence of ethyl alcohol on the carcinogenic activity
of *N*-nitrosodi-*n*-propylamine (NDPA)

11.40 0-33 SCHWINSBERG, E., Weissenberger, I. & Burkle, V.
Effect of disulfiram on the carcinogenicity of nitrosamines

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12.00 0-34 SHARMAW, T.Sh. & Aidjanov, M.M.

Effect of amino acids imbalance and ascorbic acid deficiency on carcinogenic action of *N*-nitrosopiperidine in guinea pigs

12.20 LUNCH

BIOLOGICAL EFFECTS, GENOTOXIC

Chairmen: T. Sugimura, T. Kawachi

(14.00) 0-35 SHUKER, D., Pincek, B. & Tannenbaum, S.R.

N-Nitrosamides of natural origin

(14.20) 0-36 WAKABAYASHI, Keiji, Nagao, M., Kawachi, T. & Sugimura, T.

Mechanism of appearance of mutagenicity of diphenylnitrosamine with norharman

(14.40) 0-37 NAKISHI, Tomoe, Ohara, Y. & Hayatsu, H.

A sensitive assay for mutagenic activity of *N*-nitrosamines and its use for detection of modulators of the mutagenicity

(15.00) 0-38 BARTSCH, Helmut, Milaville, C., Terracini, B., Tomatis, L., Brun, G. & Dodet, B.

Quantitative comparisons between carcinogenicity, mutagenicity and electrophilicity of direct-acting *N*-nitroso compounds and other alkylating agents

15.20 CLOSING ADDRESS - T. Sugimura

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